PACIFIC ELECTRICAL INSTRUMENT LABORATORY
111 Main St., San Francisco 5, Calif., Phone GA 1-7185

Simpson

INSTRUMENTS THAT STAY ACCURATE

OPERATOR'S MANUAL

MODEL 389-3L

SIMPSON ELECTRIC COMPANY
5200 West Kinzie St., Chicago 44, Illinois, EStebrook 9-1121
In Canada. Bach-Simpson, Ltd., London, Ontario

OPERATING INSTRUCTIONS FOR SIMPSON 389-3L

This instrument will accomodate three leads so that readings at three different locations can be taken in quick succession. The leads or lead should be plugged into the connectors marked 1, 2, and 3 on the top of the case below the meter.

Step 1 – With the switch off, the meter should read 100 degrees on low range. If not, correct it by turning the zero adjuster screw on the face of the meter cover.

Step 2 – Set the switch to adjust position; the meter should read 32 degrees. If not, correct it by removing plug on top of the case and turning the screw marked ADJUST.

Step 3 – Set the jack switch to position 1, 2, or 3, according to the lead selected for reading.

Step 4 – Set the switch to the low or high position, depending on the anticipated temperature. The meter will now indicate the temperature of the metal probe on the end of the selected lead.

Allow sufficient time for the probe to attain the same temperature as the object being measured. When measuring air temperature, allow several minutes for the temperature to stabilize. When measuring liquids, only several seconds are necessary. After using, return the switch to OFF. It is not necessary to disconnect the leads from the meter.

MAINTENANCE

DUE TO EXTREMELY LOW CURRENT USED, THE BATTERY SHOULD HAVE A LONG LIFE WITH NORMAL USE. A hearing

aid battery is ideally suited for this, although any standard flashlight battery of the same size will give satisfactory service.

Replace the battery when the reading cannot be adjusted to 32 degrees, as described in Step 2. Remove the four screws on the bottom of the case which holds the lower cover to the case.

If this instrument requires calibration, proceed as follows:

1. With the switch off, the meter should read 100 degrees on the low range. If not, correct it by turning the zero adjuster screw on the face of the meter cover.
2. Set the switch to the low temperature position.
3. Place the probe in a glass of ice water consisting of at least 50 percent ice cubes, and stir for 10 to 15 seconds to stabilize the temperature.
4. Meter should now read 32 degrees.
5. If the reading is off, turn the ADJUST screw until the meter reads exactly 32 degrees. Then turn the selector switch to ADJUST position. If the 32 degrees reading changes, remove the plug on the top of the case marked CAL. Insert a small screwdriver through the case opening and into the slot in the slot in the control, and turn until the meter reads exactly 32 degrees; then replace the plug in the case. Meter is now recalibrated and ready to use.

Do not use in acids or solutions that will attack the plastic cord or the brass shell probe, unless a protective covering is used, such as a lead or glass tube.

11-60-JM-BL REV. 1

WARRANTY

SIMPSON ELECTRIC COMPANY warrants each instrument and other articles of equipment manufactured by it to be free from defects in material and workmanship under normal use and service, its obligation under this warranty being limited to making good at its factory any instrument or other article of equipment which shall within 90 days after delivery of such instrument or other article of equipment to the original purchaser be returned intact to it, or to one of its authorized service stations, with transportation charges prepaid, and which its examination shall disclose to its satisfaction to have been thus defective; this warranty being expressly in lieu of all other warranties expressed or implied and of all other obligations or liabilities on its part, and SIMPSON ELECTRIC COMPANY neither assumes nor authorizes any other persons to assume for it any other liability in connection with the sale of its products.

This warranty shall not apply to any instrument or other article of equipment which shall have been repaired or altered outside the SIMPSON ELECTRIC COMPANY factory or authorized service stations, nor which has been subject to misuse, negligence or accident, incorrect wiring by others, or installation or use not in accord with instructions furnished by the manufacturer.

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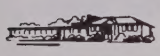

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